

EURO CHARGER 1

INSTALLATION GUIDE & MANUAL



MODEL #091-90-XX

NOTE : This charger is designed for vehicles with 3 batteries and negative ground.

INTRODUCTION

The Euro Charger, Model 091-90-xx is a compact, completely automatic single channel battery charger designed specifically for the fire service and emergency vehicles. Of rugged construction, the charge is made to withstand the shock and vibration encountered in vehicle mounted equipment. Utilizing components which meet international safety requirements makes this charger ideal for worldwide applications.

BATTERY CHARGER FEATURES

- Completely automatic operation, charges battery on demand
- Input voltage, switch selectable, 115 volt or 230 volts
- Output voltage regulated, eliminates overcharging battery
- Output, current limited to protect charger from overloading
- Optional charge indicators

SPECIFICATION

CHARGE INDICATOR: 0-20 AMPS 5%

WEIGHT: 12 LBS

INSTALLATION

1. The Euro Charger Automatic Battery Charger should be installed in an area with adequate ventilation.
2. Mount the charger using the four holes provided.
3. Connect the wiring from the batteries to the output terminal strip.
4. Double check battery wiring. Verify that battery voltage appears at the charger output terminals.
5. Set the voltage selector to either the 115 volt or 230 volt position to match the input source available.
6. Connect the input power to the input power terminal strip and energize charger.
7. Verify that power indicator is illuminated and charger is charging.

WARRANTY

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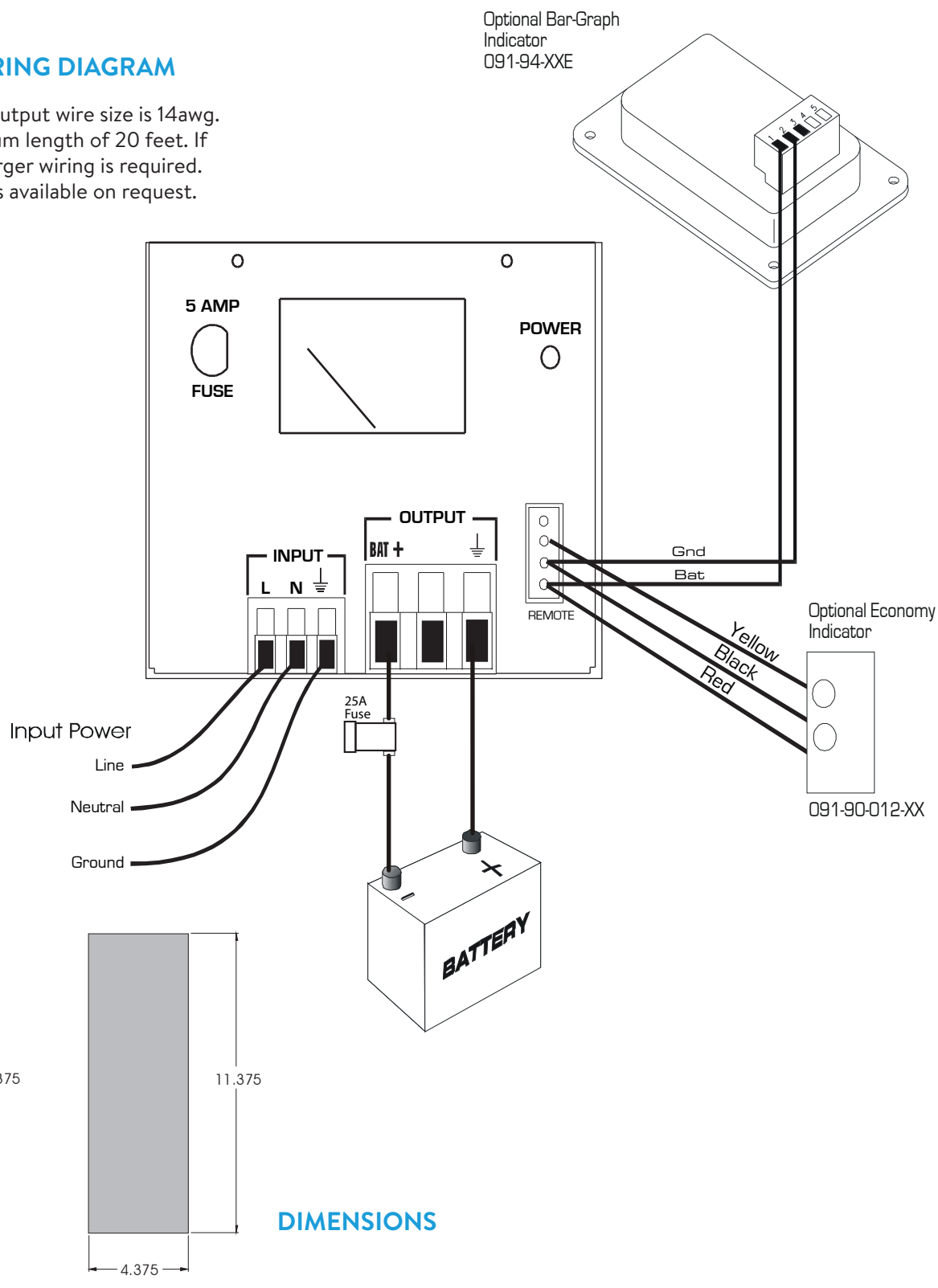
Model Number	Input Voltage	Input Current	Input Fuse	Output Voltage	Output Current	Output Fuse
091-90-12	115 / 230 Vac, 50/60 Hz	1.3 / 2.6 Amps	5 Amps	12	12	25 Amps
091-90-24	115 / 230 Vac, 50/60 Hz	1.3 / 2.6 Amps	2.5 Amps	24	6	12 Amps

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INSTALLATION WIRING DIAGRAM

IMPORTANT: Charger output wire size is 14awg.
Wire size is for a maximum length of 20 feet. If
wiring is to be longer, larger wiring is required.
Additional information is available on request.

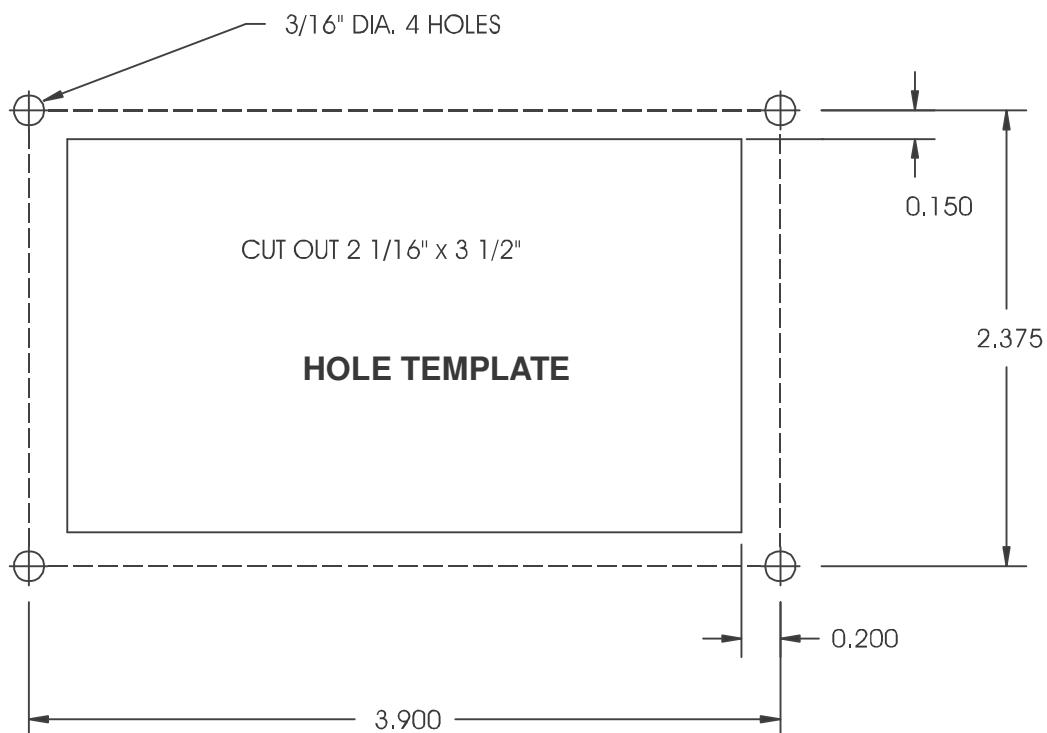
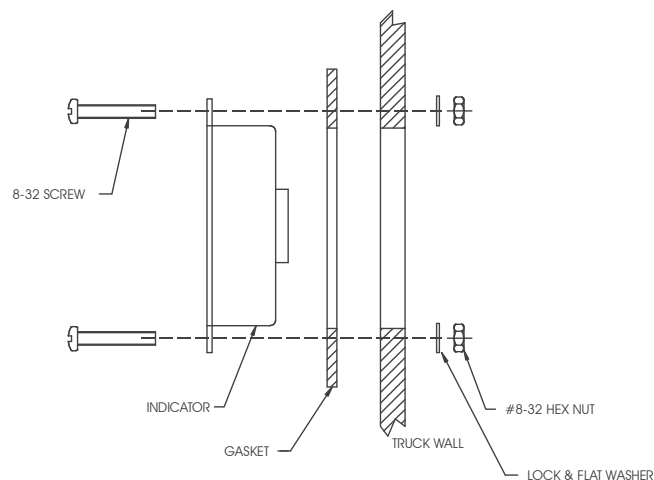


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INDICATOR INSTALLATION

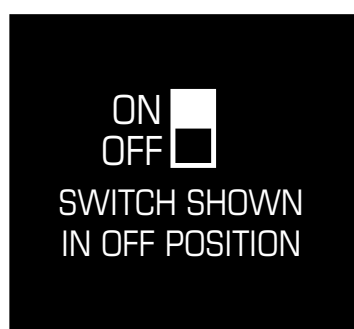
1. Locate indicator in a convenient place on the vehicle
2. Place the template in position and center punch in 4 places
3. Drill holes as shown
4. Cut out square hole
5. Connect wiring to charger in accordance with the instructions in the charger installation instructions
6. Install as shown
7. Insert (4) #8-32 screws supplied and tighten.
 Caution: do not over tighten because you will bend the plastic bezel and break the watertight seal



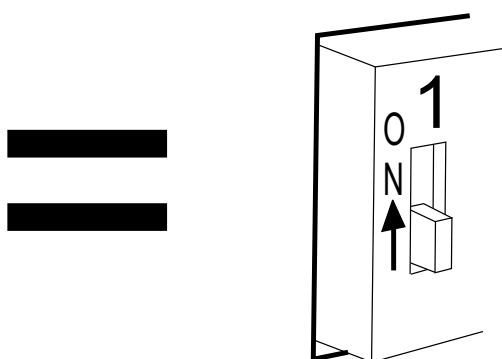
AUTO CHARGE 1000 PLC, 091-215-12

INSTALLATION GUIDE & MANUAL

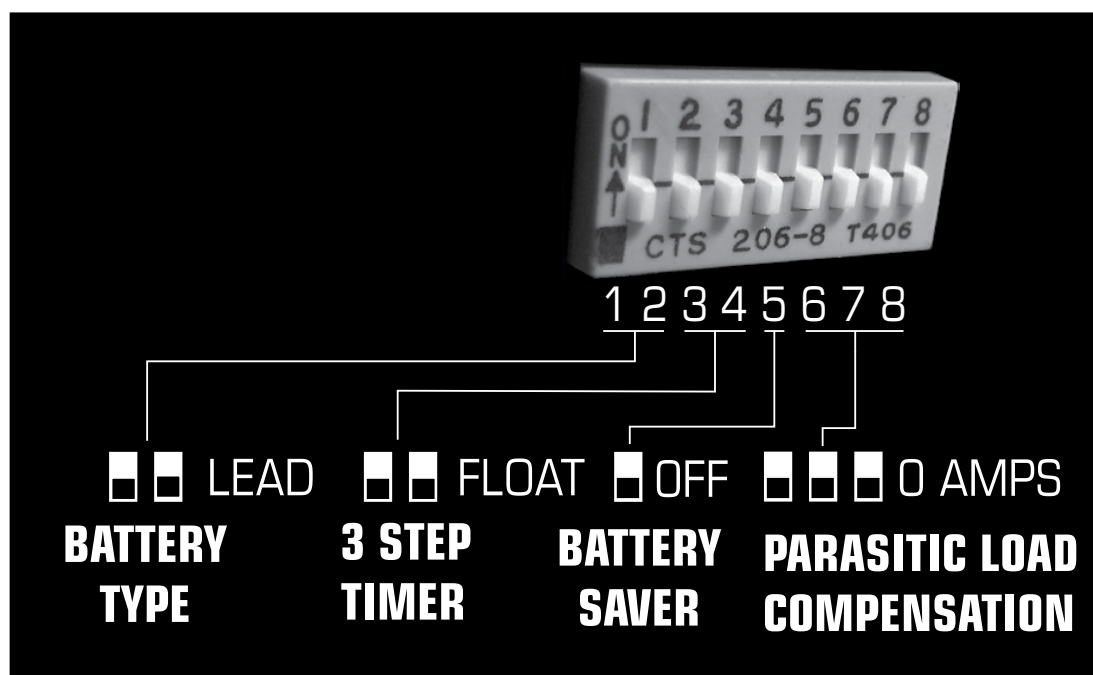
DIP SWITCH SETTINGS



Legend on front panel of charger



This is what the dip switch should look like when setting it to the legend on the front panel of the charger.



NOTE: The charger is shipped with all DIP switches in the down position.

This configuration is for Float Charging of a Lead-Acid battery with Battery Saver and Parasitic Load Compensation turned off.

AUTO CHARGE 1000 PLC, 091-215-12



FOR STANDARD BAR GRAPH DISPLAY, 091-199-001
or OPTIONAL DELUXE STATUS CENTER, 091-194B-IND

Wiring Diagram shown is for a 10 foot installation

CAUTION

1. Connect wires to charger
2. Connect wires to battery
3. Apply AC power

Caution installing battery wires into front connector.
A screwdriver could short to the chassis cover.

Accessories

Battery Saver Loads (3 amps max.). When the charger is disconnected from AC power the Battery Saver loads are automatically connected to the vehicle battery.

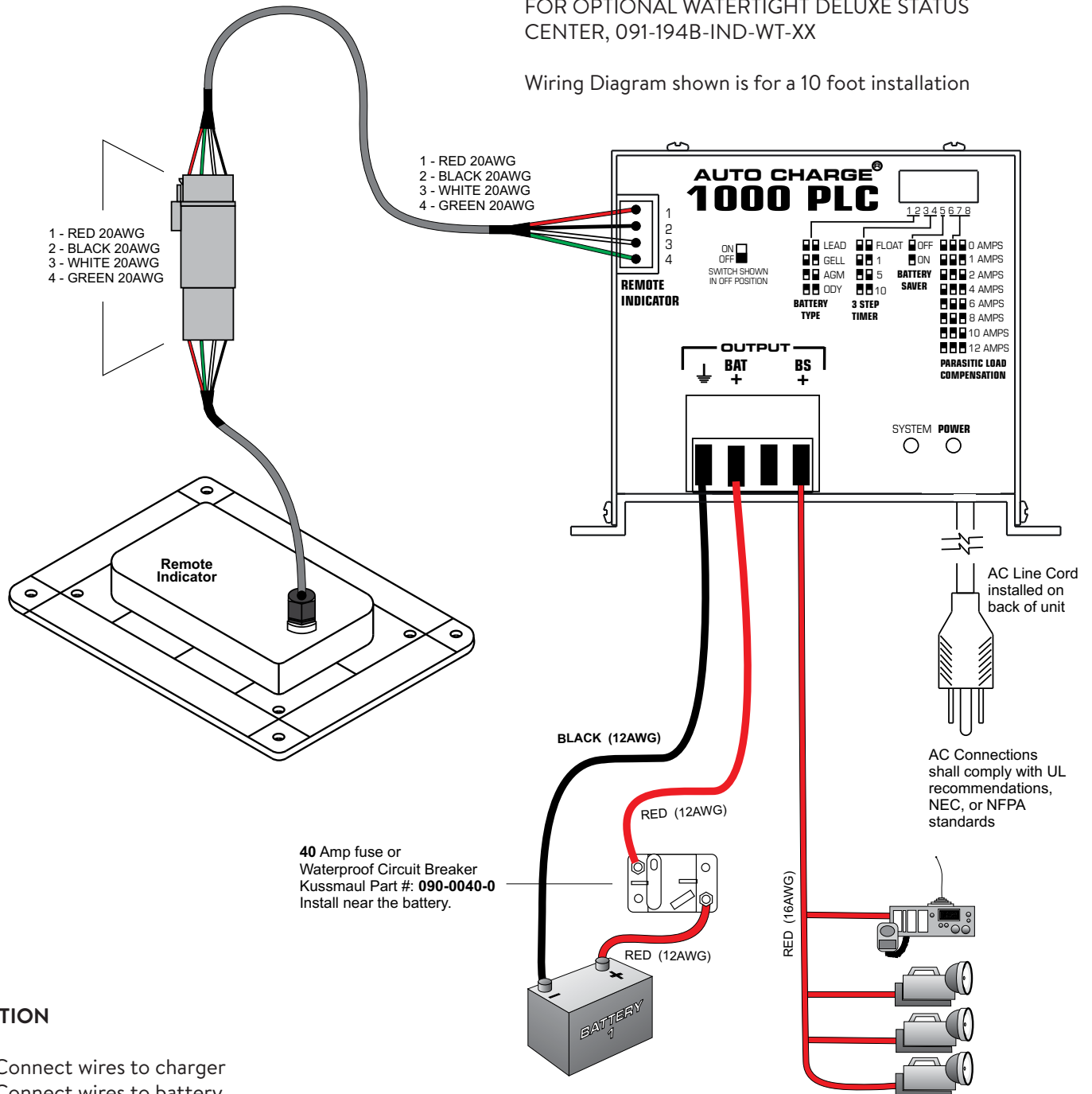
AUTO CHARGE 1000 PLC, 091-215-12

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INSTALLATION WIRING DIAGRAM

FOR OPTIONAL WATERTIGHT DELUXE STATUS CENTER, 091-194B-IND-WT-XX

Wiring Diagram shown is for a 10 foot installation



CAUTION

1. Connect wires to charger
2. Connect wires to battery
3. Apply AC power

Caution installing battery wires into front connector.
A screwdriver could short to the chassis cover.

AUTO CHARGE 1000 PLC, 091-215-12 INSTALLATION GUIDE & MANUAL

SPECIFICATION

Input Power: 120 Volt, 60 Hz, 3.5 amperes

Input Fuse: 6 ampere, fast blow

Output Power - Bat: 15 amperes max (18 amperes if Battery Saver is turned off)

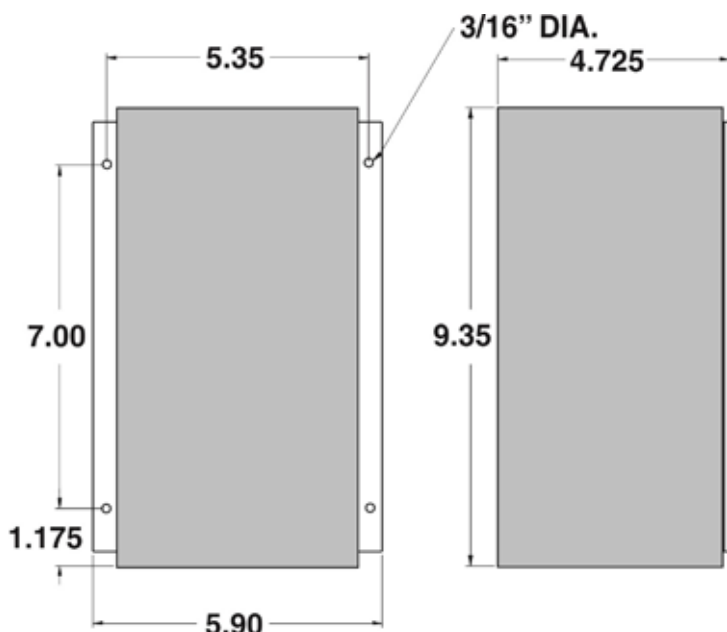
Battery Type	Float V DC	Absorbion V DC
Lead-Acid	13.25	14.00
Gelled Electrolyte	13.50	14.25
AGM	13.50	14.40
Odyssey®	13.60	14.70

Output Power - Battery Saver: 13 Volts DC, 3 amperes max

Remote Sensing: Electronic, sense wires not required

LED Status Indicators:

1. Power: Green LED, Indicates 120 Volt AC power applied
2. System: Yellow LED:
 - Fast Flash (5 times per Second) indicates battery reverse polarity
 - Slow Flash (once per second) indicates no battery is connected
 - Solid On indicates charger is in current limit (normal operation)
 - Solid Off indicates normal operation
 - Brief Flash (once every 2 seconds) indicates 3-step boost mode operation



Cooling Fan: The whisper quiet cooling fan exhausts air from the rear of the charger. When the Battery Saver is enabled, it is continuously on while AC power is applied to the charger. It turns on at 4 amperes of output current and turns off at 3 amperes when the Battery Saver is disabled.

Torque: DC Output Connector: 15 in. lbs.

Remote Display Options: Bar Graph Display, Deluxe Status Center or Watertight Status Center

Output Waterproof Circuit Breaker (Optional): Bat 1 - 40 amperes, P/N: 090-0040-0

Output Buss Bar (Optional): 5 Studs, P/N: 002-3595-5
Weight: 11 pounds

OPTIONAL ACCESSORIES

STANDARD BAR GRAPH DISPLAY, MODEL #: 091-199-001

DELUXE STATUS CENTER, MODEL #: 091-194B-IND

WATERTIGHT DELUXE STATUS CENTER, MODEL #: 091-194B-IND-WT-XX

RECOMENDED 40 AMP WATERPROOF CIRCUIT BREAKER, MODEL #: 090-0040-0

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